

SYSTEM AND METHOD FOR HOLE FILLING
IN 3D MODELS

ABSTRACT OF THE DISCLOSURE

5 A method for hole-filling in 3D models includes identifying vertices adjacent to hole boundaries in a mesh of points on a digital image and constructing a signed distance function based on vertices adjacent to hole boundaries. A Radial Basis Function is fit based on the
10 constructed signed distance function and evaluated on a grid, which include the hole. The points on the hole surface are extracted and meshed to fill the hole.